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     caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360
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    caaattgggg ggnaaaccaa atttaagggg ggaaggggg gncccccccg ggaaaggccc 180
     aagggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggccccg 240
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     aaatagetgt aaaaggtatg tttacteeag aagaceagag ttgettettt tgaacttete 240
     attecttggg cetaggaace etcateacee teateceaae gteaaceeag atettetett 300
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     ccataaacag cacteectca ggeceetgee tgacacagge atagactgte atgttggatt 360
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     tttaggegge accecaacaa caccaggece tactttttee aaggnegggg aageceatgg 180
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     gttetgggna aegggeaatg egggettgea aegggnggaa naaaaacagn eecaaaagaa 240
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     tg
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     aagggggtg gggaagagcc aaatttettt gggaaanaac geeecettgg ggaaaanaag
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                                                                     180
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     acgetetttt tgeegateae caaacetagg eggggatgat eaagetggtt ategegeget 240
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     agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna 300
     ttgeegggga gteageagte gettttteee ggnegaagee tegaacteae cancetgtet 360
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     ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420
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                                                                          120
                                                                          180
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20
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     ganggtegnn aanttaggnt teeageetge gneaengeea
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                                                                      60
25
                                                            100
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     cacgeaegge agegagtgea atgneegatt cattettnaa egaegeaeae accengnnge 120
10
     cctgtgaaac ccataaacag tgggaaatgg tgc
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      ngatnnagac enennateae etaatacane eatnactean atgaetnttt gtgegeettt 120
      tatcanatge atagcetate naaaacatea e
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      ctgettaagt ngteecaetg gteeagaeca gegaeceage
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     tgtcctgaag gacaagccgn ttcgtttgaa nctgtgaaat ac
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25
     ggtgeteetg egtttggaet gtgeaggeet eteetatget gatgegtete eccaeteetg 180
     agetaattte tgetetgete ettetgtgae atgtggeage gtgggaaata gecaetgtee 240
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     ggnaggaccc tgntgactcg gggggcggga gcngggancc agg
.35
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      tttaaaaatt tatgecatat gteeagette eagteagtge ttetggttag eatgaggata 120
45
      actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt
                                                               221
      ttggtagcct cagtgctctt atcccaagta aaagcaaagt t
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- 45 <221> misc_feature
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35
     nncattnngc aagegnaenn gegengeena gengaeeagg
                                                                 100
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     congnetate teactganga tgattgneag ngcenntggg tggeacnang ggnaetgatg
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     ancancactg accetgeega egecagange egeanateeg gagantneat gngacnatat 420
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     agcenttaag ancaettntt ttgggttgeg etnttggatg aattaenaat agnntgtttt 660
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     gttncaagge eettetgena aatatgaana aaagngenet tagetttttg ngggaactgn 720
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     agectgeect cattagacca agacagcaag gtttneectg gteactagat gaaatt
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7.7	tateatotot agoceeatet eetogogogo etageataet aceateteea agogogogo 180

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     ttttgaatte taaactgtet etgggtgggt gtgggtgeea eeaagageat gtgtteatgt 180
35
     agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg
     gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata 300
     ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
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     ctcaatttct gcatgagaaa aaaggtggac
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     15
     agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat
                                                                  240
     gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat
                                                                  360
     gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga
20
     tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca
                                                                   420
     atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480
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                                            481
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    ngacgegeeg tacaggntna attatggnan ettacatggn aaaggggean etcaatgtee
                                                                   120
15
                                             125
    cacag
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    <211> 473
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    atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg
    aaatgaatet gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
35
    cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaaata tgacatgaaa 240
                                                               300
    40
    ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga
     catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
                                                               473
     tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga
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<210> 73

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25 ÷
    gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa
                                                           180
                                                            240
    tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga
30
                                                           300
    360
    tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga
    aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat
                                                           420
35
    aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg
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    atgagatgaa atgatgaaat
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15
    cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa
                                                                180
                                                               240
    tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg
                                                                299
    aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg
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                                                                        60
     ctacttnaga ngaanteete geaaaateet tgaateaceg etteagtgea gtgatateae 120
     egecatgaaa tttetgeteg attagettae gttgtttgga tagaggecaa acaaggetgt 180
40
     tateggtaeg aggaatggat gttegattte gtagaataeg cetgagagae ggegaataet 240
     ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300
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     aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat 360
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     atagaaatca ttatttetgt gggatggata attgggccaa attgtaaaat attttaacta 120
     tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg 180
25
     agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc actttttct 240
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     aggtcctttc ttagtct
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 - <223> n is a, c, g, or t
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- 45 <220>
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     nntaantaaa aagggtgaag aannttactt enettggtee taaaaaaacnt tttenteagt
                                                                       120
     tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa 180
25
     tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata 240
     ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc 300
     taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg 360
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     gcccggggtt ttt
                                                    373
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     <222> (92)..(92)
     <223> n is a, c, g, or t
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     cettgatgtt caagtattta agaccetatg enaatatttt ttacetttte taataaacca 120
     tgtttgtt
                                                128
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     ggccaggcct tccctttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg
     ggaaaanaaa teetttttaa anggaantee aagggaagga neetgnneaa naetteecen 180
20
                                                            213
     ccaataaaaa aaaccntttt ggaaangggg aaa
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     <211> 443
     <212> DNA
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     <213> Human
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     gaaatgagat gaaaccatga gnatgaaatg aannaatgnc atgcaaatga tgagatgaaa
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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat 120

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg
                                                                     240
    aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat
 5
    gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa
                                                                      300
    tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa
10
    tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa 420
                                                      443
    atgaaatgaa atgagattaa atg
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     gacctetgaa tgtattantg anneaagtga tagccaagat attitgaaga aaaatagata 120
     ntagggacct getetataag eecateataa tttattatga agttataaca agtaaaacag 180
15
     taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
     taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat 300.
20
     aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
     catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg
     taggaaagca tttcttttt tt
                                                   442
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     <213> Human
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     <221> misc feature
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     aggaggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120
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 gagttgcctt ctgtaagtgc ccctactate aaggtttcat ggaaaatcta ggcaaggcag
 120

aactteetea gaaggacaag agacaaagaa gtgggggagg eeeteetate eatagetgag 180
 agggtttatt etttgtggtt etgetgteag ageetttgga tgtetgatet gagatggage 240
 aaceeeaget agacagaact ttgtagattt tggggggttt aaaaggeete aageaaatte 300
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<213> Human

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gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

40 <210> 86 <211> 201 <212> DNA <213> Human

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	attacctett tttgtgacca etettaaagg eeaggaacat atttggagaa geetagttgt 180
5	atgtaacagt gtggggtttc a 201
	<210> 87 <211> 531
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·	<213> Human
	<400> 87
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	aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa 120
· · ·	tettttacce eggeactegg gteeaceete geggeaceag aggtattete eggegagteg 180
20	ttaaccateg caategeega eegagtttaa ggaccaetee eeacetttet cattagttaa 240
	ggagaacget actttaccee atagaeggag aaategetae teaactacea ggegegegee 300
25	gtegagteee tetteetete tttatgeatt tagagegett tegtaagagt ttteeetaga 360
	ttettetaag egtagegegt etaeteeaat gttttegtta ateeageeeg aactaaegee 420
	geggaggagt egateegtet acteetatee egteggeteg gatttactae aggagetaag 480
30	aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531
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40	catteggtee agtgeetege cetattagee ettaageeea eegtttetaa aacteeeaga 120
	acagecaaac eggteegeec aaggeeteeg tegttttata atatatteeg tttaegtata 180
45	aggaacgaac eccetteat taccaeggte eegegteege eteettetee attegeaaca 240
<u>-</u>	gttetattee ttteageete eegtaeetge tteeagaaca tegeaeegee atagtegaaa 300

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      agaggeggaa teeaaceatt caagagttat aacaagttat eggeactegg gggateagaa 420
 . .5 ...
      tataaactta atgteeeett tatteteeeg gaegeeeett ttaaceaett etteetatet 480
      ttegetaaca agecattgae ggegetttge egegegggee catetegegt
                                                                    530
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     cannigtethit gaegntigtga tigeataegnt tigggeagagn gancaatang tigngeatatig 300
     cgtgccttac ncaaggatac ggangngctt gaaattgatg ngaccaanan tttnngtacg 360
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     <223> n is a, c, g, or t
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     <223> n is a, c, g, or t
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     gagatgaatg atgaaatgat gagatgagat gatgaaatga aatggtgaga tgaactgatg
      aaatgaaatg aaataatgaa atgaaattga aataaaattg aaatgagatg agatgaaatg 120
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240 300 acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360 10 atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat 420 gaaaaaatga aatgaaataa tgaaatgagg tgaaattaaa tgagatgatg aaattaaatg 480 atgaaatgaa ataatgaaat ggaaatgaaa tggaaatgat gagatgaatg atgagatgaa 540 15 atgatgagat gagatgtatt gatgagagga aatgatgaga tgtaatgaaa tgagatgaaa 600 tgaatgagat gaaatggaat antggaangg aaattgattg gngatttgag atgaaatgag 660 20 ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccggggtgnn tgagatgaat 720 tgagttgaac cctgngatga atgaagattg nntgaatggt ggntgaatgt tgaatggntg 780 800 gntggnanaa tgcctgtngg

25

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<211> 334

<212> DNA

30 <213> Human

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atgaaatgat attgaaatga aattgaaaga tgagatgatg agatgaaatg gtgaaatgtt 120

180 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa

tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240

atgaaatgaa aatgaaatgg aaatgatgag atgagaagaa atgatgagat gagatgagat 300

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35

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                                                         100
     tgcttggtag acgcttttga acccttcagc gctgaaagta
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35
                                                                  120
     agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat
     gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga
                                                                  180
     aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag
                                                                 240
40
                                                                 300
     atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga
                                                                  360
     tgaatgatga gatgaaatga tgagatgaga tctaatgatg agaggagatg atgagatgaa
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     ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420
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     \langle 223 \rangle n is a, c, g, or t
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      ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt 180
 10
      cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240
      tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta 300
15
      tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac
      aggtttagaa atttatgttc ggctttttaa agtttta
                                                           397
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      attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc
 35
                                                      132
      ngaggaagac cc
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      <211> 246
      <212> DNA
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      <400> 102
 45 ·
      gggggcttta gttataactg ggctaagcat aattgcgcta ccaattccat attatctcat
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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt 180
     aacctataac ttattaagta aagtgccaga atggttcttt gacagtatta aaattaaaga 240
                                               246
     aaacag
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         RT-PCR analysis
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     getggaacgt agagacteee tget
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25
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                                                    24
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     <210> 109
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    <223> forward primer of APP used for quantitative RT-PCR analysis
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     <221> primer bind
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                                                  20
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     <220>
     <223> reverse primer of APP used for quantitative RT-PCR analysis
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15
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     <400> 111
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                                                    21
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25
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     <213> Artificial Sequence
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    <220>
     <223> reverse primer of ZFP used for quantitative RT-PCR analysis
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                                                     22
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40